IN THE CLAIMS:

Please amend the claims as follows:

- 1. (Currently Amended) A self regulating flexible heater construction for producing heat when connected to an electrical power source, comprised of comprising:
 - a flexible fabric substrate;
 - a layer of a positive temperature coefficient material; and
- a layer of a conductive material, wherein at least one of the layers is applied to the heater in an interdigitated pattern.
- 2. (Original) The heater of claim 1 wherein the substrate is woven or non-woven fabric.
- 3. (Original) The heater of claim 1 wherein the layer of conductive material is applied to the layer of positive temperature coefficient material in an interdigitated pattern.
- 4. (Original) The heater of claim 1 wherein the layer of positive temperature coefficient material is applied to the layer of conductive material in an interdigitated pattern.
- 5. (Original) The heater of claim 1 wherein the density of the fabric is 1 to 6 ounces per square yard.
- 6. (Original) The heater of claim 1 wherein the PTC material is comprised of a polyolefin resin.
- 7. (Original) The heater of claim 1 wherein the coating of PTC material has a weight 7 to 20 lbs. per ream.



- 8. (Original) The heater of claim 1 wherein the positive temperature coefficient material has a surface resistivity of 2 to 10 kilo-ohms as measured by multimeter probes set 1 cm apart.
- 9. (Original) The heater of claim 1 wherein the positive temperature coefficient material has a surface resistivity of 3 to 8 kilo-ohms as measured by multimeter probes set 1 cm apart.
- 10. (Original) The heater of claim 1 wherein the conductive material is formulated from a mixture of a polymeric resin selected from the group consisting of vinyls, polyesters, acrylics and a conductive material selected from the group consisting of silver pigment, a silver coated copper pigment, or plated copper pigments.
- 11. (Original) The heater of claim 1 wherein the conductive material is formulated from a mixture of solvating materials selected from the group consisting of organic solvents and water based solvents and a conductive material selected from the group consisting of silver pigment, a silver coated pigment, or plated copper pigments.
- 12. (Original) The heater of claim 1 wherein the conductive material is constructed of conductive wires fixed within the construction by conductive glues.
- 13. (Currently Amended) The heater of claim 1 A self regulating flexible heater construction for producing heat when connected to an electrical power source, comprising:
 - a flexible fabric substrate;
 - a layer of a positive temperature coefficient material; and
- <u>a layer of a conductive material</u>, wherein at least the layer of conductive material <u>is</u> the first and second layers are applied to the substrate by screen printing, spraying, draw down, web printing or any other printing method capable of providing a uniform coating.

14. (Currently Amended) The heater of claim 1 further comprised of A self regulating flexible heater construction for producing heat when connected to an electrical power source, comprising:

a flexible fabric substrate;

a layer of positive temperature coefficient material;

a layer of conductive material; and

a plurality of buss bars in electrical contact with the conductive material and an electrical power source.

- 15. (Original) The heater of claim 14 wherein the buss bars have a width dimension and a length dimension, and wherein the width decreases over at least a portion of its length.
- 16. (Original) The heater of claim 14 wherein the buss bars have a width dimension and a length dimension, and wherein the width remains constant over at least a portion of its length.
- 17. (Original) The heater of claim 14 wherein the buss bars have a width dimension and a length dimension, and at least one void at a preselected location along its length.
- 18. (Original) The heater of claim 14 wherein the buss bars have a width dimension and a length dimension, and wherein the width dimension increases step-wise over at least a portion of its length.
- 19. (Original) The heater of claim 14 wherein the spacing of the busses varies across the heater.
- 20. (Original) The heater of claim 1 further comprised of an overlayer of a laminated or sewn secondary breathable woven or non-woven fabric comprised of natural or synthetic fibers which covers the heater.

- 21. (Currently Amended) The heater of claim 20 wherein the overlayer is an encapsulating coating, which may be a flame retardant coating, which is applied over the heater elements.
- 22. (Original) The heater of claim 1 wherein the heater is incorporated within the construction of a seat for an automobile.
- 23. (Currently Amended) The heater of claim 1 A self regulating flexible heater construction for producing heat when connected to an electrical power source, comprising:

a flexible fabric substrate;

a layer of positive temperature coefficient material; and

a layer of conductive material, wherein the heater has a multiple buss design providing for high and low current settings, comprised of at least a common setting buss, a low setting buss, and a high setting buss, in which current flows from either the common setting buss to high setting buss or from the common setting buss to low setting buss.

24. (Currently Amended) A self regulating flexible heater construction for producing heat when connected to an electrical power source, comprised of comprising:

a flexible fabric substrate;

a layer of a positive temperature coefficient material; and

a layer of a conductive material, wherein the seat heater composition construction has a bulk density of about 0.6 g/cm³ or greater and a thermal diffusivity of about 0.003 cm²/s or greater.

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